

**Listing of the Claims:**

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1-11 (Canceled).

12 (Currently amended). A telephone controller in a voice over Internet  
13 Protocol (VoIP) system that controls plural telephone sets via a LAN  
14 connected to the Internet, comprising:  
15 a receiver that receives a message containing a predetermined  
16 header sent via the LAN by one of the telephone sets which, when  
17 connected to the LAN, requests for requesting an IP address to be allocated  
18 for the requesting telephone set;  
19 a header analysis circuit connected to the receiver and which  
20 analyzes the message to determine that the received message contains the  
21 predetermined header;  
22 a control circuit connected to the header analysis circuit and  
23 receiving notification from the header analysis circuit that the received  
24 message contains the predetermined header and, in response, the control  
25 circuit checks a set of extensions stored in a table and assigns a domain  
26 name of the telephone controller to a selected extension and generates an  
ID comprising a the domain name of the telephone controller and an the  
selected extension of for the requesting telephone set in case the message  
for requesting the IP address is received;  
an IP address allocation circuit connected to receive from the  
control circuit the ID and, in response, that the IP address allocation circuit  
allocates the an IP address of for the requesting telephone set; and  
a memory including a table, the control circuit receiving the  
allocated IP address from the IP address allocation circuit and that stores  
an storing the IP address and the ID, comprising a the domain name, an  
and the extension, and the IP address in the table; and  
a notifying unit that notifies said control circuit notifying the

27 requesting telephone set of the ID, the extension and the IP address for the  
28 requesting telephone set, whereby the telephone set automatically acquires  
29 its ID, its IP address, and its extension from the telephone controller only  
30 by connecting the telephone set to the LAN.

Claims 13–18 (Canceled).

1 19 (New). The telephone controller as recited in claim 12, wherein the ID  
2 includes, in addition to the domain name of the telephone controller and  
3 the selected extension for the requesting telephone set, a name of a user of  
4 the telephone set.

1 20 (New). The telephone controller as recited in claim 19, wherein the ID  
2 includes plural user names assigned to a same extension.

1 21 (New). The telephone controller as recited in claim 12, wherein the  
2 control circuit selects the extension.

1 22 (New). The telephone controller as recited in claim 12, wherein a user  
2 of the telephone set selects the extension subject to the selected extension  
3 not already being registered in the table when the table is checked by the  
4 control circuit.

1 23 (New). A telephone communication system, comprising:  
2 a telephone controller, a plurality of telephone sets, and a local area  
3 network (LAN) which is connected to the Internet and to which each of the  
4 telephone controller and the plurality of telephone sets are connected;  
5 wherein the control circuit includes:  
6 a receiver that receives a message containing a predetermined  
7 header sent via the LAN by one of the telephone sets which,  
8 when connected to the LAN, requests an Internet Protocol  
9 (IP) address to be allocated for the requesting telephone set;

10 a header analysis circuit connected to the receiver and which  
11 analyzes the message to determine that the received  
12 message contains the predetermined header;  
13 a controller control circuit connected to the header analysis circuit  
14 and receiving notification from the header analysis circuit  
15 that the received message contains the predetermined  
16 header and, in response, the controller control circuit checks  
17 a set of extensions stored in a table and assigns a domain  
18 name of the telephone controller to a selected extension and  
19 generates an ID comprising the domain name of the  
20 telephone controller and the selected extension for the  
21 requesting telephone set;  
22 an IP address allocation circuit connected to receive from the  
23 controller control circuit the ID and, in response, the IP  
24 address allocation circuit allocates an IP address for the  
25 requesting telephone set; and  
26 a memory including a table, the controller control circuit receiving  
27 the allocated IP address from the IP address allocation  
28 circuit and storing the IP address and the ID, comprising the  
29 domain name and the extension, in the table;  
30 said controller control circuit notifying the requesting telephone set  
31 of the ID, the extension and the IP address for the  
32 requesting telephone set;  
33 and wherein at least one of the plurality of telephone sets includes:  
34 a telephone set control circuit which generates a message  
35 containing the predetermined header to the telephone  
36 controller requesting an IP address be allocated to said at  
37 least one said plurality of telephone sets; and  
38 a memory to which the telephone set control circuit writes the ID,  
39 the extension and the IP address as notified by the controller  
40 control circuit,  
41 whereby said at least one of the plurality of telephone sets automatically

42 acquires its ID, its IP address, and its extension from the telephone  
43 controller only by connecting the telephone set to the LAN.

1 24 (New) The telephone communication system as recited in claim 23,  
2 wherein said at least one of the plurality of telephone sets further  
3 comprises a display circuit connected to and responsive to the telephone  
4 set control circuit for displaying the extension of the telephone set when  
5 the control circuit receives notification from the controller control circuit.

1 25 (New). The telephone controller as recited in claim 23, wherein the ID  
2 includes, in addition to the domain name of the telephone controller and  
3 the selected extension for the requesting telephone set, a name of a user of  
4 the telephone set.

1 26 (New). The telephone controller as recited in claim 25, wherein the ID  
2 includes plural user names assigned to a same extension.

1 27 (New). The telephone controller as recited in claim 23, wherein the  
2 control circuit selects the extension.

1 28 (New). The telephone controller as recited in claim 23, wherein a user  
2 of the telephone set selects the extension subject to the selected extension  
3 not already being registered in the table when the table is checked by the  
4 control circuit.